

What is claimed is:

1. A screen-printing machine, comprising:

an exposure unit having a light transmitting top, a light below the top, and a frame member bordering the top, said frame member including a plurality of spaced apart locator pins that extend upwardly from said frame member;

5 a light transmitting, positive image carrier positionable on said light transmitting top, said positive image carrier including a plurality of locator pin openings in which the locator pins are received, said locator pins and said locator pin openings serving to position the positive image carrier in a predetermined position on the top of the exposure unit; and

10 a positive image positioned at a predetermined location on the positive image carrier.

2. The screen-printing machine of claim 1, comprising a second light transmitting positive image carrier positionable on the first light transmitting positive image carrier, said second positive image carrier including a plurality of locator openings in which the locator pins are received, said locator pins and said
5 locator pin openings serving to position the second positive image carrier in a predetermined position on top of the first positive image carrier and on top of the exposure unit; and

a second positive image positioned at a predetermined location on the second positive image carrier relative to the first positive image on the first
10 positive image carrier.

3. The screen-printing machine of claim 2, comprising a third positive image carrier positionable on the second positive image carrier, said third positive image carrier including a plurality of locator openings in which the locator pins are received, said locator pins and said locator pin openings serving to position the
5 third positive image carrier in a predetermined position on the second positive image carrier; and

a third positive image positioned at a predetermined location on the third positive image carrier relative to the second positive image on the second positive image carrier and relative to the first positive image on the first positive image
10 carrier.

4. The screen-printing machine of claim 1, further comprising a printing screen positionable above the positive image carrier and the exposure unit.

5. The screen-printing machine of claim 2, comprising a first printing screen and a second printing screen selectively positionable, one at a time, over the exposure unit.

6. The screen-printing machine of claim 4, comprising three printing screens selectively positionable over the exposure unit, one at a time, in sequence.

7. The screen-printing machine of claim 4, comprising a common support for the exposure unit and the printing screen, so that the printing screen occupies a predetermined position relative to the exposure unit.

8. The screen-printing machine of claim 5, comprising a common support for the first and second printing screens and the exposure unit, wherein each printing screen is positioned at a predetermined position on the exposure unit.

9. The screen-printing machine of claim 8, comprising a frame and a printing screen support mounted on the frame for rotation about a vertical axis, said printing screen support comprising a connector for each printing screen, wherein each said printing screen is positioned on the support so as to be
5 selectively and individually positionable above the exposure unit by rotation of the support.

10. The screen-printing machine of claim 9, wherein each said printing screen occupies a predetermined position on the support relative to the exposure unit.

11. The screen-printing machine of claim 6, comprising a frame and a printing screen support mounted on the frame for rotation about a vertical axis, said printing screen support comprising a connector for each said printing screen, wherein each said printing screen is positioned on the support so as to be

5 selectively and individually positioned above the exposure unit by rotation of the support.

12. The screen-printing machine of claim 11, wherein each said printing screen occupies a predetermined position on the support relative to the exposure unit.

13. The screen-printing machine of claim 7, comprising a connector between the common support for the exposure unit and the printing screen which includes a detachable pin and socket connection adapted to allow the printing screen to be detached from the support and then reattached to the support at the
5 same position that it previously occupied.

14. The screen-printing machine of claim 5, comprising a connector between the common support for the exposure unit and the printing screen which includes a detachable pin and socket connection adapted to allow the printing screen to be detached from the support and then reattached to the support at
5 substantially the same position that it previously occupied.

15. The screen-printing machine of claim 6, comprising a connector between the common support for the exposure unit and the printing screen which includes a detachable pin and socket connection adapted to allow the printing screen to be detached from the support and then reattached to the support at the
5 same position that it previously occupied.

16. The screen-printing machine of claim 7, wherein the common support includes an elongated, horizontal support arm and said exposure unit includes a tubular member having a center passageway that is sized and shaped to receive the support arm, and a clamp for clamping the exposure unit onto the support arm.

17. A screen-printing machine, comprising:

- a main frame including an elongated, horizontal support arm;
- an exposure unit and a work piece table that interchangeably mounted in predetermined position on the support arm;
- said exposure unit having a light transmitting top, a light below the top, and a frame member bordering the top, said frame member including a plurality of spaced apart locator pins that extend upwardly from said frame member;
- a light transmitting, positive image carrier positionable on said light transmitting top, said positive image carrier including a plurality of locator openings in which the locator pins are received, said locator pins and said locator pin openings serving to position the positive image carrier in a predetermined position on the top of the exposure unit; and
- a positive image positioned at a predetermined location on the positive image carrier.

18. The screen-printing machine of claim 17, comprising a second light transmitting positive image carrier positionable on the first light transmitting

positive image carrier, said second positive image carrier including a plurality of
5 locator openings in which the locator pins are received, said locator pins and said
locator pin openings serving to position the second positive image carrier in a
predetermined position on top of the first positive image carrier and the top of the
exposure unit; and

a second positive image positioned at a predetermined location on the
10 second positive image carrier relative to the first positive image on the first
positive image carrier.

19. The screen-printing machine of claim 18, comprising a third positive
image carrier positionable on the second positive image carrier, said third positive
image carrier including a plurality of locator openings in which the locator pins are
received, said locator pins and said locator pin openings serving the position the
5 third positive image carrier in a predetermined position on the second positive
image carrier; and

a third positive image positioned at a predetermined location on the third
positive image carrier relative to the second positive image on the second positive
image carrier and the first positive image on the first positive image carrier.

20. The screen-printing machine of claim 17, further comprising a
printing screen positionable above the positive image carrier and the exposure
unit.

21. The screen-printing machine of claim 18, comprising a first printing screen and a second printing screen selectively positionable, one at a time, over the exposure unit.

22. The screen-printing machine of claim 20, comprising three printing screens selectively positionable over the exposure unit, one at a time, in sequence.

23. The screen-printing machine of claim 20, comprising a common support for the exposure unit and the printing screen, so that the printing screen occupies a predetermined position relative to the exposure unit.

24. The screen-printing machine of claim 21, comprising a common support for the first and second printing screens and the exposure unit, wherein each printing screen is positioned at a predetermined position on the exposure unit.

25. The screen-printing machine of claim 24, comprising a frame and a printing screen support mounted on the frame for rotation about a vertical axis, said printing screen support comprising a connector for each printing screen, wherein each said printing screen is positioned on the support to as to be
5 selectively and individually positioned above the exposure unit by rotation of the support.

26. The screen-printing machine of claim 25, wherein each said printing screen occupies a predetermined position on the support relative to the exposure unit.

27. The screen-printing machine of claim 22, comprising a frame and a printing screen support mounted on the frame for rotation about a vertical axis, said printing screen support comprising a connector for each said printing screen, wherein each said printing screen is positioned on the support so as to be
5 selectively and individually positioned above the exposure unit by rotation of the support.

28. The screen-printing machine of claim 27, wherein each said printing screen occupies a predetermined position on the support relative to the exposure unit.

29. The screen-printing machine of claim 23, comprising a connector between the common support for the exposure unit and the printing screen which includes a detachable pin and socket connection adapted to allow the printing screen to be detached from the support and then reattached to the support at the
5 same position that it previously occupied.

30. The screen-printing machine of claim 21, comprising a connector between the common support for the exposure unit and the printing screen which includes a detachable pin and socket connection adapted to allow the printing

screen to be detached from the support and then reattached to the support at the
5 same position that it previously occupied.

31. The screen-printing machine of claim 22, comprising a connector
between the common support for the exposure unit and the printing screen which
includes a detachable pin and socket connection adapted to allow the printing
screen to be detached from the support and then reattached to the support at the
5 same position that it previously occupied.

32. The screen-printing machine of claim 23, wherein the common
support includes an elongated, horizontal support arm and said exposure unit
includes a tubular member having a center passageway that is sized and shaped
to receive the support arm, and a clamp for clamping the exposure unit onto the
5 support arm.

33. A screen-printing machine, comprising:
an exposure unit having a light transmitting top, a light below the top and a
frame, including an end and an elongated tubular member having a center
passageway opening at said end;
5 a transverse frame member positioned outwardly from said end;
an elongated arm connected to a central portion of the frame member and
extending from the frame member into the center passageway of the tubular
member;

a printing screen on the top of the exposure unit, said printing screen
10 having an end member positioned contiguous said frame member; and

a plurality of pins and sockets for connecting the end member of the
printing screen to the transverse frame member.

34. The screen-printing machine of claim 33, wherein the sockets are in
the transverse frame member and the pins are carried by the end member of the
printing screen frame.

35. The screen-printing machine of claim 33, comprising a clamp on
said exposure unit for clamping the tubular member in the exposure unit to the
elongated arm that extends from the transverse frame member into the tubular
member.

36. A screen-printing machine, comprising:
an exposure unit having a light transmitting top, a plurality of spaced-apart
black lights below the top;
a plurality of spaced-apart white lights below the top;
5 reflectors below the black lights; and
window openings in the reflectors located above the white lights.

37. The screen-printing machine of claim 36, comprising a printing
screen positionable on the exposure unit and a switch on the exposure unit

including an operator adapted to be contacted and depressed by the printing screen, to operate the switches and activate the black lights.

38. The screen-printing machine of claim 37, wherein the operator when depressed operates the switch to turn off the white lights.